Rectangles

A RECTANGLE is a quadrilateral with FOUR

right ANGLES .

If a parallelogram is a rectangle, then the DIAGONALS are

CONGRUENT .

Rhombus

A RHOMBUS is a quadrilateral with all four sides

CONGRUENT .

The diagonals of a rhombus are PERPENDICULAR .

Each diagonal of a rhombus BISECTS a pair of opposite

ANGLES .

Square

If a quadrilateral is BOTH a RECTANGLE

and a RHOMBUS then it is a SQUARE

Trapezoid

A TRAPEZOID is a quadrilateral with exactly ONE

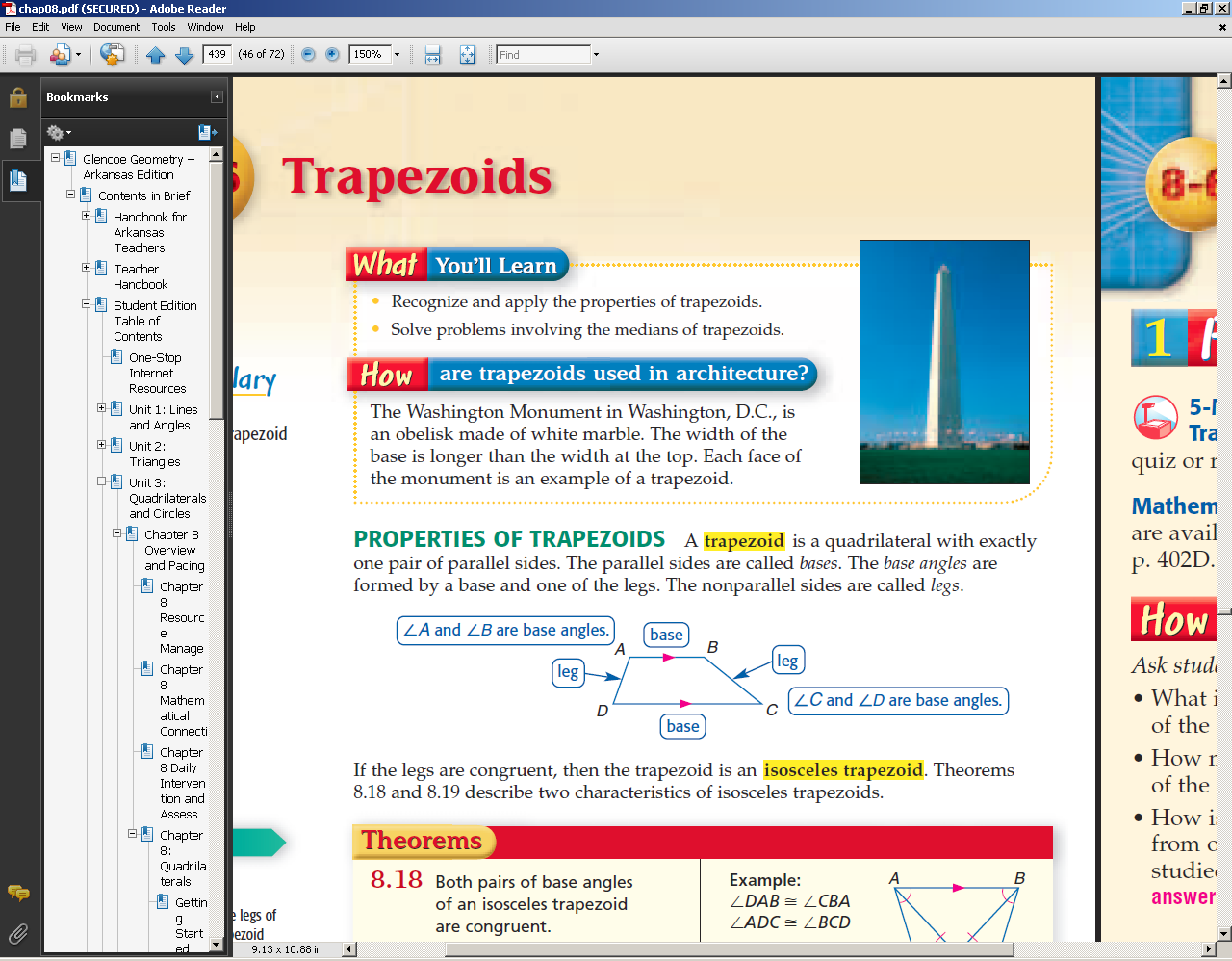
pair of PARALLEL sides.

The parallel sides are called BASES . The nonparallel sides are

called LEGS . The base angles are formed by a base and one of the

legs. If the legs are congruent, then the trapezoid is an ISOSCELES

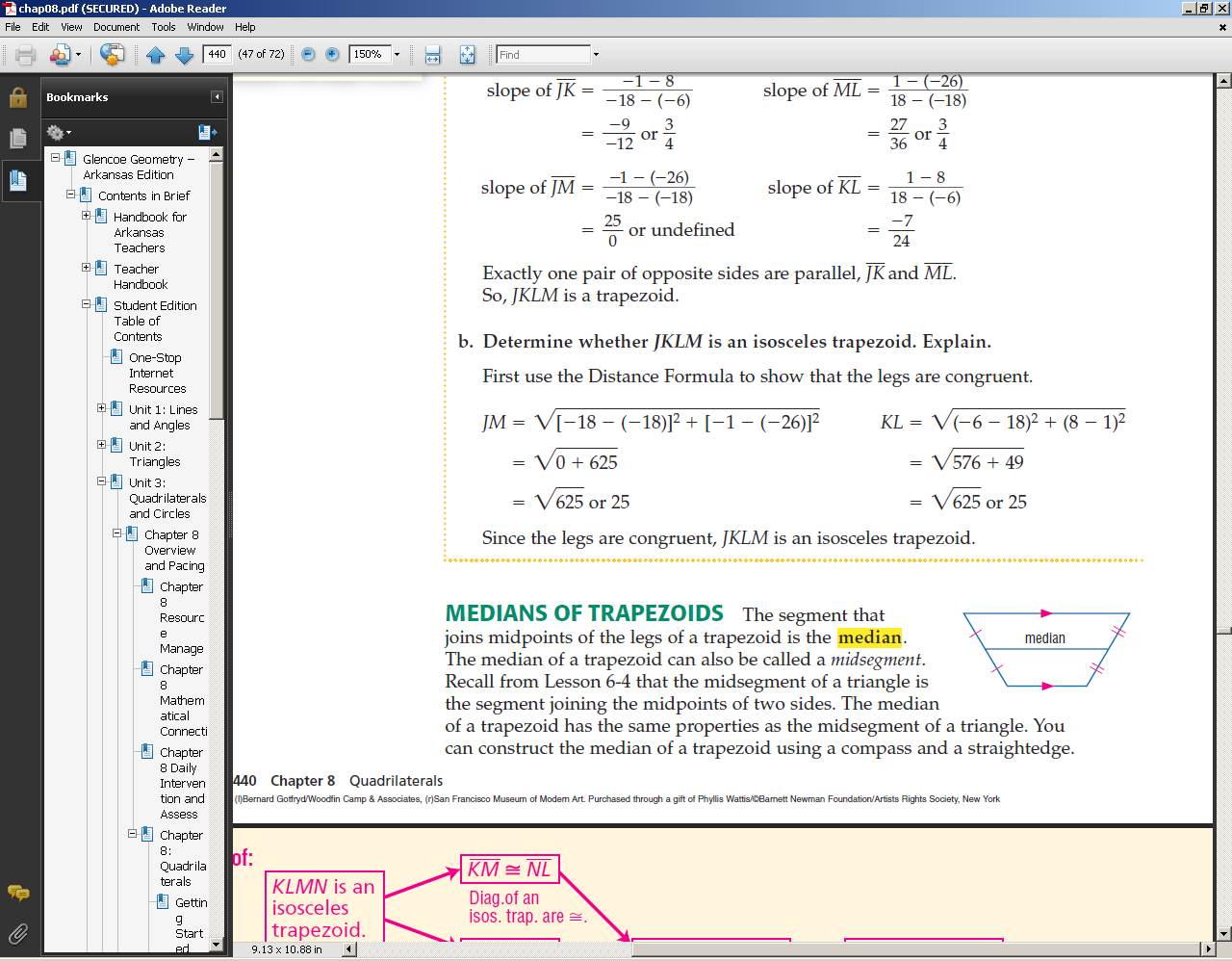
trapezoid.



Both pairs of base angles of an isosceles trapezoid are CONGRUENT

The LEGS of an isosceles trapezoid are CONGRUENT

The segment that joins midpoints of the legs of a trapezoid is the MEDIAN



The MEDIAN of a trapezoid is PARALLEL to the

bases and its measure is one-half the SUM of the measures of

the bases.

Venn Diagram

Place the words quadrilateral, parallelogram, rectangle, rhombus, and square in a Venn Diagram.

Practice:

Actual: Quadrilaterals

Parallelograms

Rectangle square Rhombus